Notice of Allowability	Application No.	lication No. Applicant(s)	
	 10/519,418	QIN ET AL.	
	Examiner	Art Unit	
	Janet L. Coppins	1626	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included inication will be mailed in due course. THIS	ve
1. This communication is responsive to <u>Applicants' Amendme</u>	ent of 10/9/07.		
2. The allowed claim(s) is/are <u>19-31,33 and 35</u> .			
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	been received.	•	
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority doc	cuments have been received	I in this national stage application from the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne header according to 37 CF	e drawings in the front (not the back) of R 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F			
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Inf	ormal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		mmary (PTO-413), Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	
or biological material	9.	,	

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DETAILED ACTION

1. Claims 19-31, 33 and 35 are pending in the instant application.

. Response to Amendment

2. Applicants' Amendment of October 9, 2007, has been reviewed by the Examiner and entered in the file. Accordingly, claims 30, 31, 33 and 35 have been amended, and claims 32, 34 and 36 have been cancelled.

Claim Rejections - 35 USC § 112

3. Claims 30 and 32-35 previously rejected under 35 U.S.C. 112, first paragraph, as not being fully enabled. In view of Applicant's amendment to claim 30 and persuasive arguments, the enablement rejections are withdrawn. Applicants demonstrate the ability of the instant compounds to enhance memorization in animals in the many working examples found on pages 20-22 of the instant specification.

Double Patenting

4. Claim 34 previously objected to under 37 CFR 1.75 as being a substantial duplicate of claim 33. In view of Applicants' amendment of claim 33 and cancellation of claim 34, the double patenting rejection is withdrawn.

Allowable Subject Matter

5. In view of Applicants' amendatory changes and cancellations, claims 19-31, 33 and 35 now appear allowable over the prior art.

Reasons for Allowance

6. Claims 19-31, 33 and 35 are allowable, as newly renumbered as claims 1-15. The following is an examiner's statement of reasons for allowance:

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This invention relates to novel acutumine derivatives, their pharmaceutical compositions, and their methods of use The allowable compounds are limited to compounds according to formula (I) of renumbered claim 1, and formula (I') of renumbered claim 10. The alkaloid acutumine is known in the art as having mnemocognition-facilitating ability, however the aspect of preparing the instant claimed derivatives of acutumine, with memory enhancing activity, is novel and unobvious. The instant compounds were tested for their ability to enhance the memorization in murine models (please refer to Examples A-E found in the specification), which makes them useful as agents for treating deficiencies in memory. After a thorough search, the closest of prior art, Yu, Bing-Wu et al, "Alkaloids from Menispermum dauricum" was found to teach similar alkaloids, including acutumine compounds. However the journal article fails to teach or render obvious the instant claimed compounds according to formula (I), and does not fairly suggest methods of using the instant claimed compounds as for treating deficiencies of memory in animals.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Coppins whose telephone number is 571.272.0680. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane can be reached on 571.272.0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Janet L. Coppins December 22, 2007 KAMALA. SAEED, COLD. PRIMARY EXAMINER

Joseph K. McKane SPE, Art Unit 1626